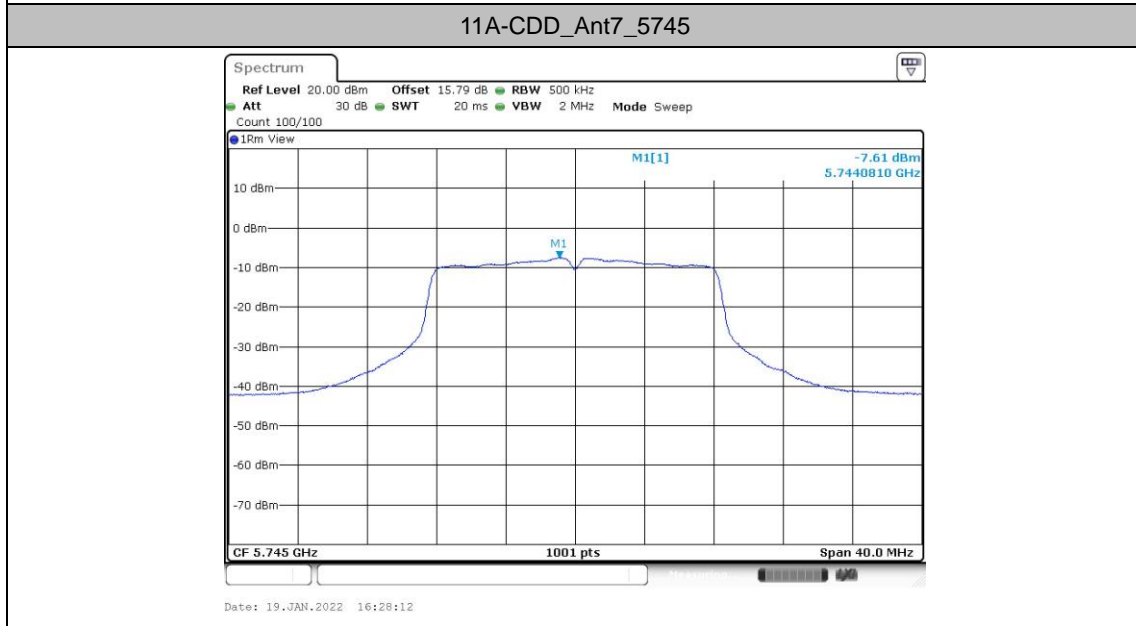
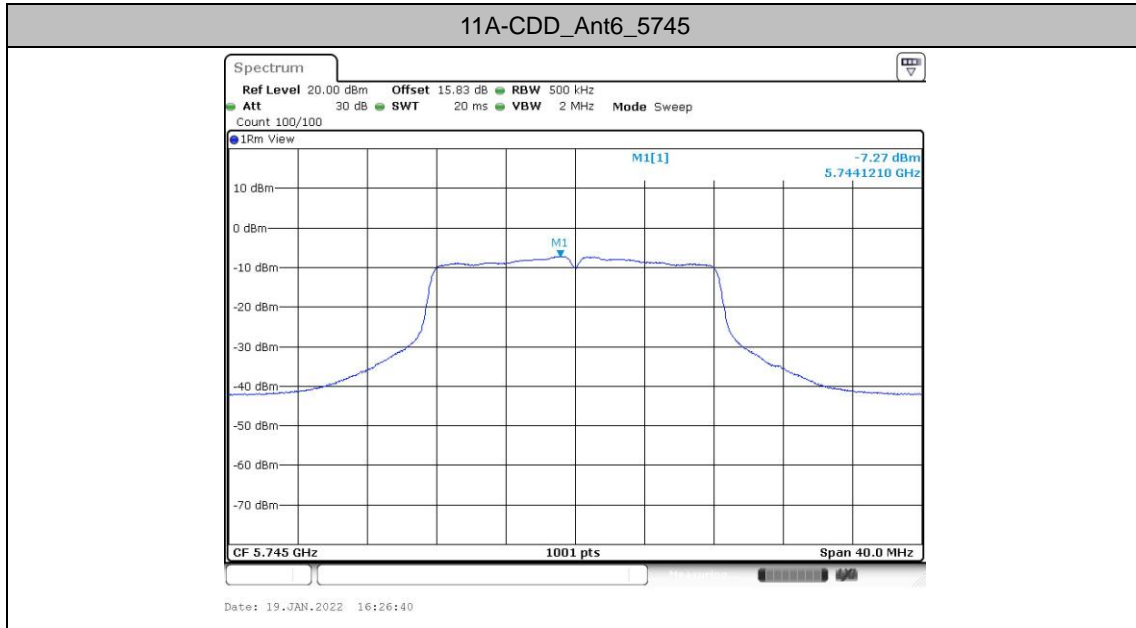


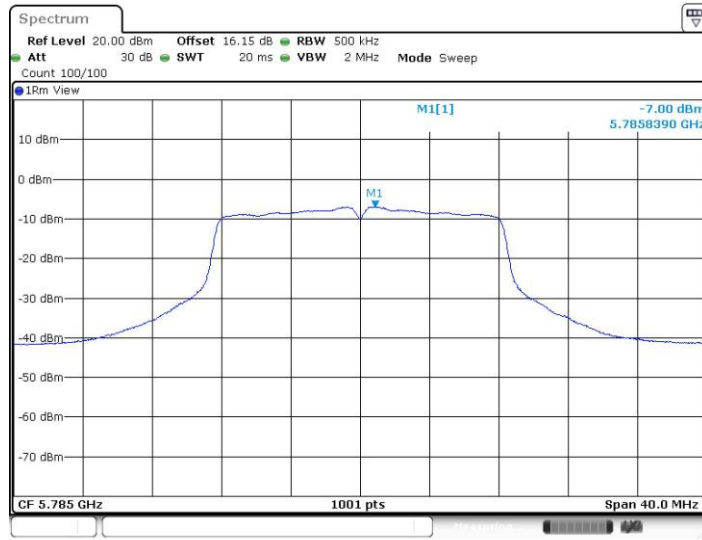


Test Graphs



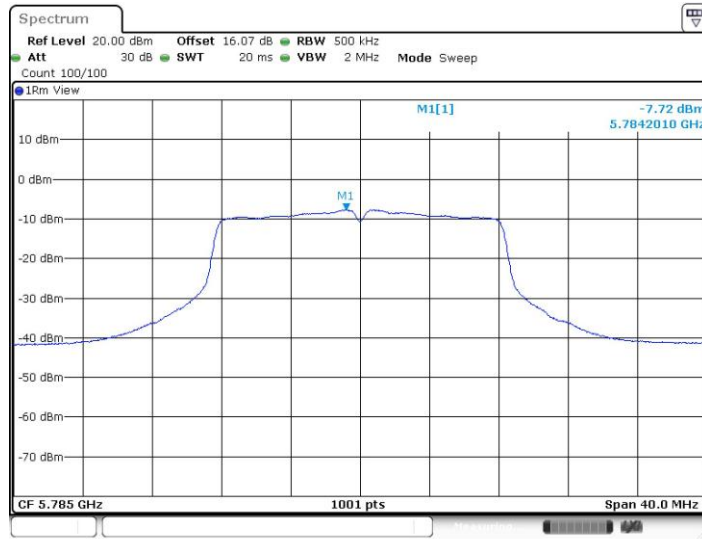


11A-CDD_Ant6_5785



Date: 19.JAN.2022 16:30:11

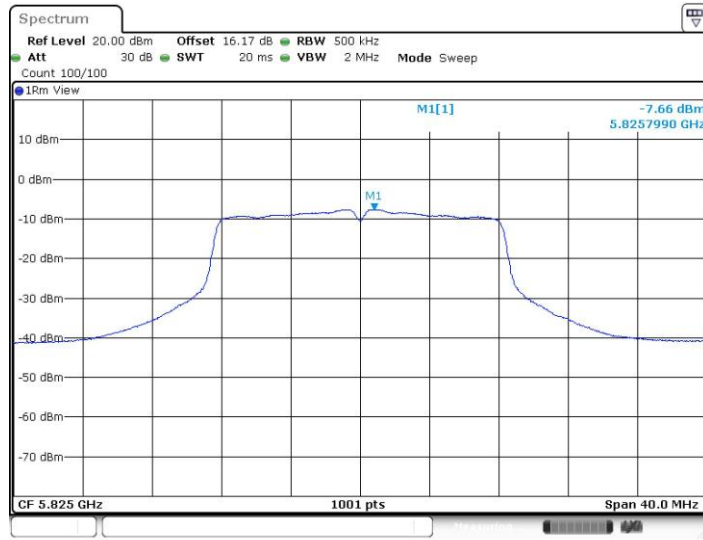
11A-CDD_Ant7_5785



Date: 19.JAN.2022 16:31:46

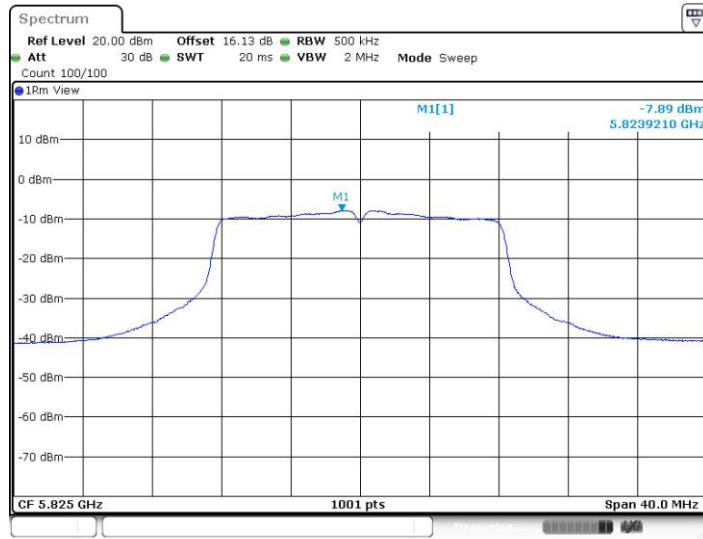


11A-CDD_Ant6_5825



Date: 19.JAN.2022 16:34:11

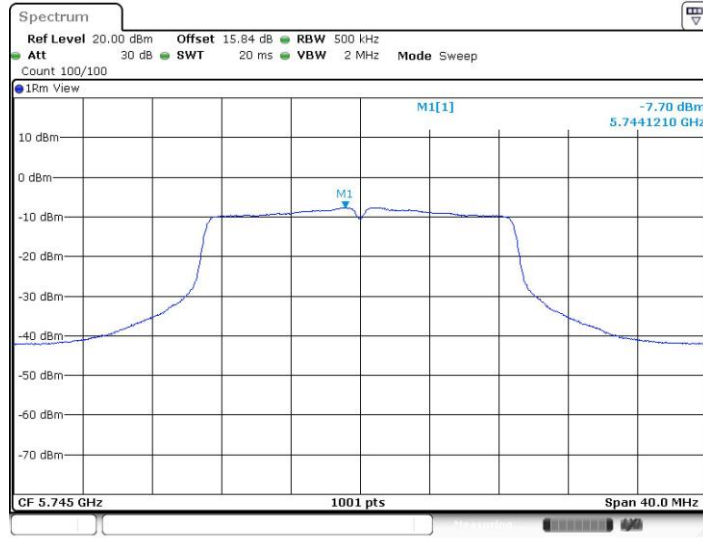
11A-CDD_Ant7_5825



Date: 19.JAN.2022 16:35:43

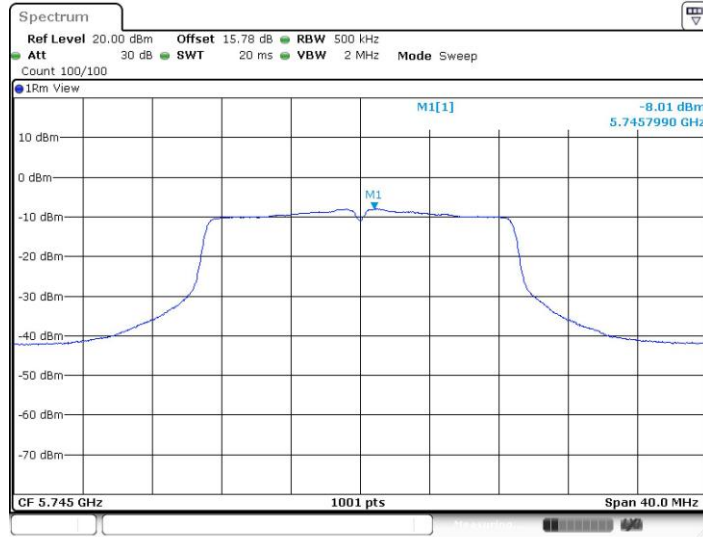


11AC20-CDD_Ant6_5745



Date: 19.JAN.2022 17:36:00

11AC20-CDD_Ant7_5745



Date: 19.JAN.2022 17:37:35

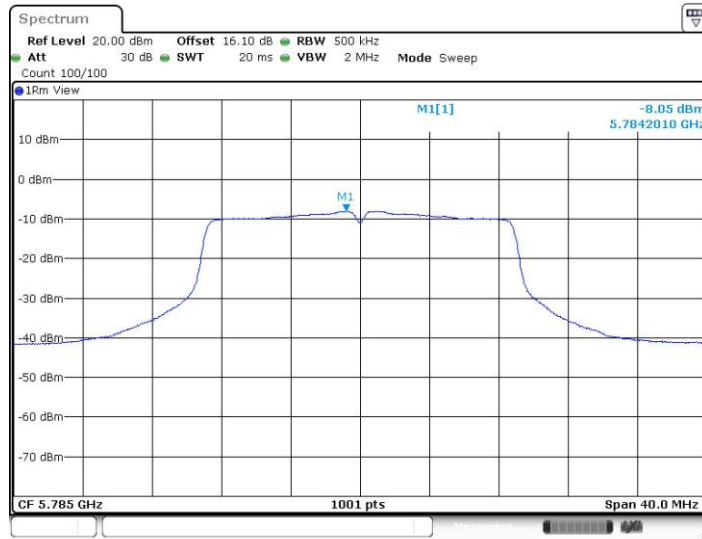


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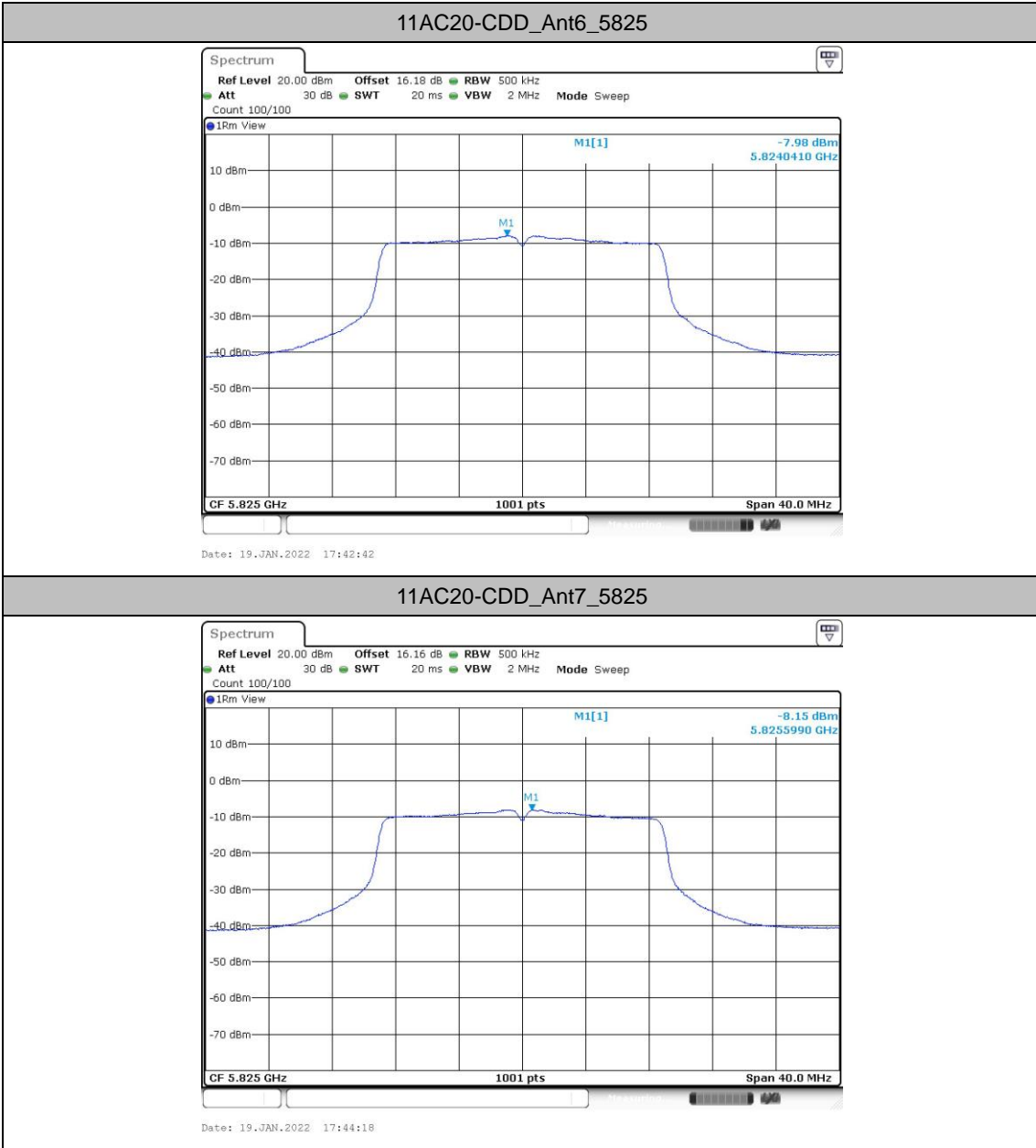


Date: 19.JAN.2022 17:39:23

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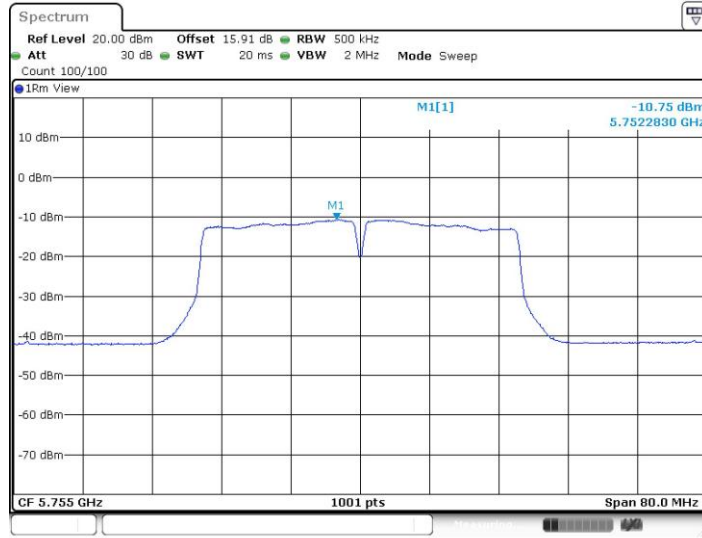


Date: 19.JAN.2022 17:40:57



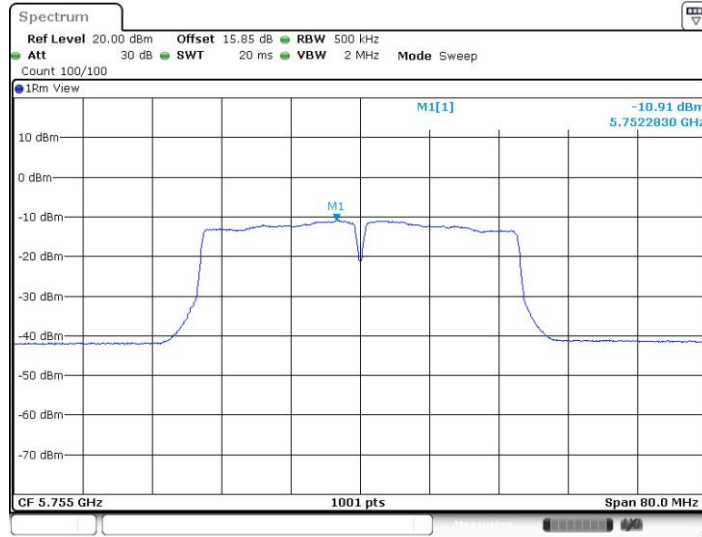


11AC40-CDD_Ant6_5755



Date: 19.JAN.2022 18:08:07

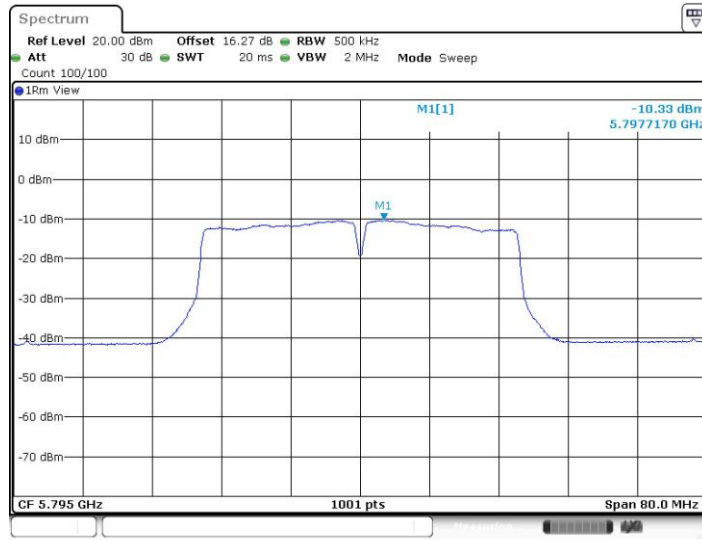
11AC40-CDD_Ant7_5755



Date: 19.JAN.2022 18:09:36

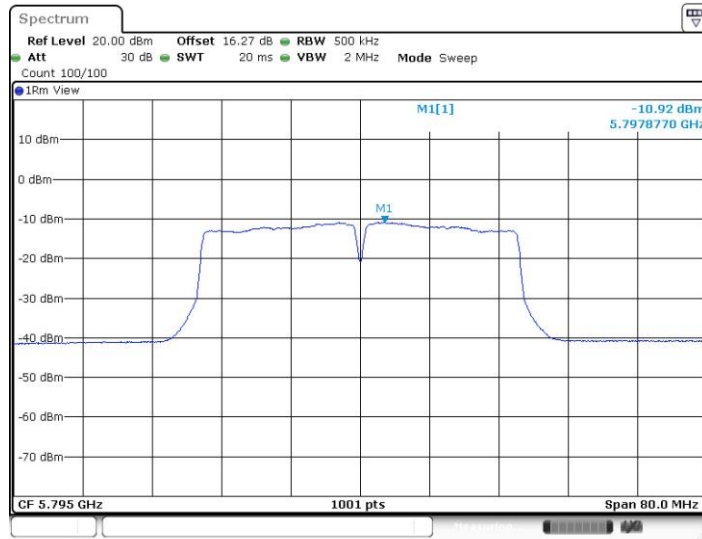


11AC40-CDD_Ant6_5795



Date: 19.JAN.2022 18:13:18

11AC40-CDD_Ant7_5795



Date: 19.JAN.2022 18:14:47



11AC80-CDD_Ant6_5775



Date: 19.JAN.2022 18:29:13

11AC80-CDD_Ant7_5775

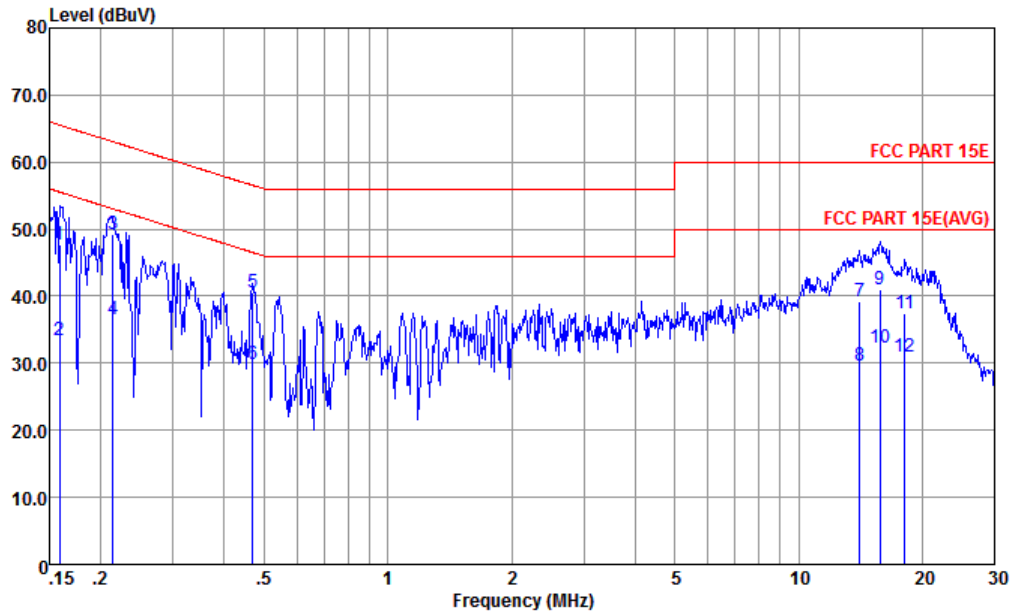


Date: 19.JAN.2022 18:30:41



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

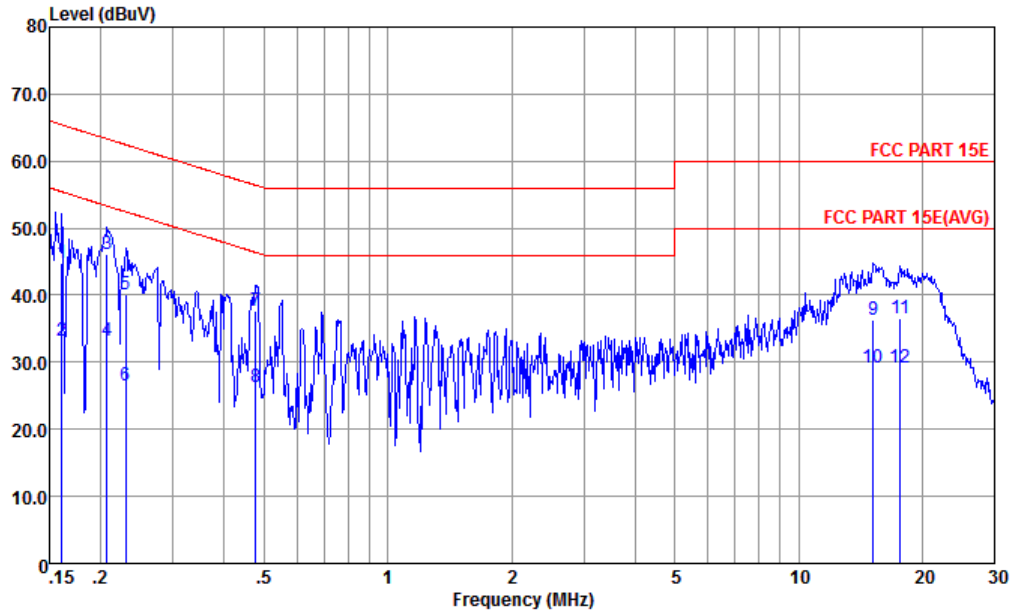


Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.159	47.68	-17.84	65.52	37.20	0.02	10.46	QP
2	0.159	33.38	-22.14	55.52	22.90	0.02	10.46	Average
3 *	0.214	49.30	-13.75	63.05	38.90	0.05	10.35	QP
4	0.214	36.60	-16.45	53.05	26.20	0.05	10.35	Average
5	0.469	40.54	-16.00	56.54	30.20	0.10	10.24	QP
6	0.469	29.94	-16.60	46.54	19.60	0.10	10.24	Average
7	14.063	39.17	-20.83	60.00	28.49	0.29	10.39	QP
8	14.063	29.57	-20.43	50.00	18.89	0.29	10.39	Average
9	15.801	40.95	-19.05	60.00	30.21	0.33	10.41	QP
10	15.801	32.35	-17.65	50.00	21.61	0.33	10.41	Average
11	18.135	37.49	-22.51	60.00	26.61	0.42	10.46	QP
12	18.135	31.09	-18.91	50.00	20.21	0.42	10.46	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.161	44.76	-20.67	65.43	34.20	0.11	10.45	QP
2	0.161	33.16	-22.27	55.43	22.60	0.11	10.45	Average
3 *	0.207	46.06	-17.26	63.32	35.60	0.10	10.36	QP
4	0.207	33.26	-20.06	53.32	22.80	0.10	10.36	Average
5	0.230	40.04	-22.40	62.44	29.60	0.10	10.34	QP
6	0.230	26.54	-25.90	52.44	16.10	0.10	10.34	Average
7	0.476	37.55	-18.86	56.41	27.20	0.11	10.24	QP
8	0.476	26.25	-20.16	46.41	15.90	0.11	10.24	Average
9	15.226	36.21	-23.79	60.00	25.49	0.32	10.40	QP
10	15.226	29.21	-20.79	50.00	18.49	0.32	10.40	Average
11	17.661	36.48	-23.52	60.00	25.60	0.43	10.45	QP
12	17.661	29.18	-20.82	50.00	18.30	0.43	10.45	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5625.6	55.96	-12.34	68.3	41.41	35.48	11.15	32.08	211	20	P	H
		5686.8	56.13	-39.43	95.56	41.42	35.55	11.22	32.06	211	20	P	H
		5706.4	57.06	-50.03	107.09	42.27	35.6	11.23	32.04	211	20	P	H
		5723.6	56.71	-62.4	119.11	41.88	35.62	11.25	32.04	211	20	P	H
		5746	103.03	-----	-----	88.12	35.65	11.27	32.01	211	20	P	H
		5746	96.4	-----	-----	81.49	35.65	11.27	32.01	211	20	A	H
		5625.6	54.81	-13.49	68.3	40.26	35.48	11.15	32.08	250	351	P	V
		5690.8	56.73	-41.79	98.52	41.99	35.58	11.22	32.06	250	351	P	V
		5718.8	55.8	-54.76	110.56	40.99	35.6	11.25	32.04	250	351	P	V
		5724.4	57.11	-63.82	120.93	42.28	35.62	11.25	32.04	250	351	P	V
		5746	98.93	-----	-----	84.02	35.65	11.27	32.01	250	351	P	V
		5746	93.86	-----	-----	78.95	35.65	11.27	32.01	250	351	A	V



WiFi Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		5853.2	57.11	-57.89	115	41.88	35.8	11.36	31.93	267	22	P	H
		5857.2	57.85	-52.43	110.28	42.6	35.8	11.38	31.93	267	22	P	H
		5922.8	56.61	-13.31	69.92	41.38	35.78	11.44	31.99	267	22	P	H
		5928	57.2	-11.1	68.3	41.98	35.77	11.44	31.99	267	22	P	H
		5824	102.55	-----	-----	87.4	35.75	11.35	31.95	267	22	P	H
		5824	95.43	-----	-----	80.28	35.75	11.35	31.95	267	22	A	H
		5852.4	57.08	-59.75	116.83	41.85	35.8	11.36	31.93	244	353	P	V
		5863.2	56.81	-51.79	108.6	41.59	35.79	11.38	31.95	244	353	P	V
		5893.2	57.09	-34.71	91.8	41.87	35.78	11.41	31.97	244	353	P	V
		5930.8	57.35	-10.95	68.3	42.13	35.77	11.44	31.99	244	353	P	V
		5824	100.5	-----	-----	85.35	35.75	11.35	31.95	244	353	P	V
		5824	93.69	-----	-----	78.54	35.75	11.35	31.95	244	353	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11488	47.09	-26.91	74	52.52	38.69	16.31	60.43	300	0	P	H
		11488	47.46	-26.54	74	52.89	38.69	16.31	60.43	100	0	P	V
802.11a CH 157 5785MHz		11565	46.79	-27.21	74	52.1	38.71	16.37	60.39	300	0	P	H
		11565	46.41	-27.59	74	51.72	38.71	16.37	60.39	100	0	P	V
802.11a CH 165 5825MHz		11653	46.82	-27.18	74	51.94	38.73	16.47	60.32	300	0	P	H
		11653	46.97	-27.03	74	52.09	38.73	16.47	60.32	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5641.2	55.84	-12.46	68.3	41.28	35.5	11.16	32.1	205	37	P	H
		5684.8	56.78	-37.31	94.09	42.07	35.55	11.22	32.06	205	37	P	H
		5711.2	57.3	-51.14	108.44	42.51	35.6	11.23	32.04	205	37	P	H
		5723.6	56.15	-62.96	119.11	41.32	35.62	11.25	32.04	205	37	P	H
		5851.2	56.36	-63.2	119.56	41.13	35.8	11.36	31.93	205	37	P	H
		5855.2	56.49	-54.35	110.84	41.24	35.8	11.38	31.93	205	37	P	H
		5892.8	56.67	-35.42	92.09	41.44	35.79	11.41	31.97	205	37	P	H
		5951.6	57.15	-11.15	68.3	41.95	35.76	11.45	32.01	205	37	P	H
		5752	101.72	-----	-----	86.79	35.65	11.29	32.01	205	37	P	H
		5752	94.78	-----	-----	79.85	35.65	11.29	32.01	205	37	A	H
		5641.2	55.37	-12.93	68.3	40.81	35.5	11.16	32.1	252	349	P	V
		5658.4	56.42	-18.12	74.54	41.79	35.53	11.18	32.08	252	349	P	V
		5716.8	57.05	-52.96	110.01	42.26	35.6	11.23	32.04	252	349	P	V
		5722.4	55.74	-60.63	116.37	40.93	35.6	11.25	32.04	252	349	P	V
		5854.8	55.47	-55.89	111.36	40.22	35.8	11.38	31.93	252	349	P	V
		5868.8	56.48	-50.55	107.03	41.26	35.79	11.38	31.95	252	349	P	V
		5906	57.34	-24.98	82.32	42.1	35.78	11.43	31.97	252	349	P	V
		5944	56.18	-12.12	68.3	40.97	35.77	11.45	32.01	252	349	P	V
		5758	98.31	-----	-----	83.34	35.67	11.29	31.99	252	349	P	V
	5758	91.29	-----	-----	76.32	35.67	11.29	31.99	252	349	A	V	



WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5610	55.98	-12.32	68.3	41.46	35.47	11.13	32.08	180	18	P	H
		5692.8	56.95	-43.04	99.99	42.21	35.58	11.22	32.06	180	18	P	H
		5707.6	57.45	-49.98	107.43	42.66	35.6	11.23	32.04	180	18	P	H
		5722.8	55.8	-61.48	117.28	40.97	35.62	11.25	32.04	180	18	P	H
		5850	57.8	-64.5	122.3	42.57	35.8	11.36	31.93	180	18	P	H
		5871.2	57.31	-49.05	106.36	42.08	35.79	11.39	31.95	180	18	P	H
		5885.6	56.92	-40.51	97.43	41.71	35.79	11.39	31.97	180	18	P	H
		5928.8	55.93	-12.37	68.3	40.71	35.77	11.44	31.99	180	18	P	H
		5794	101.9	-----	-----	86.83	35.72	11.32	31.97	180	18	P	H
		5794	93.71	-----	-----	78.64	35.72	11.32	31.97	180	18	A	H
		5610.8	56.27	-12.03	68.3	41.75	35.47	11.13	32.08	400	360	P	V
		5687.2	56.95	-38.91	95.86	42.24	35.55	11.22	32.06	400	360	P	V
		5715.6	55.9	-53.77	109.67	41.11	35.6	11.23	32.04	400	360	P	V
		5722.8	55.55	-61.73	117.28	40.72	35.62	11.25	32.04	400	360	P	V
		5852.8	56.32	-59.6	115.92	41.09	35.8	11.36	31.93	400	360	P	V
		5856.4	56.33	-54.18	110.51	41.08	35.8	11.38	31.93	400	360	P	V
		5877.6	56.87	-46.5	103.37	41.64	35.79	11.39	31.95	400	360	P	V
		5959.6	56.82	-11.48	68.3	41.6	35.76	11.47	32.01	400	360	P	V
	5800	99.34	-----	-----	84.27	35.72	11.32	31.97	400	360	P	V	
	5800	91.03	-----	-----	75.96	35.72	11.32	31.97	400	360	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		11510	46.56	-27.44	74	51.97	38.7	16.32	60.43	300	0	P	H
CH 151 5755MHz		11510	47.22	-26.78	74	52.63	38.7	16.32	60.43	100	0	P	V
802.11ac VHT40		11587	46.33	-27.67	74	51.57	38.72	16.41	60.37	300	0	P	H
CH 159 5795MHz		11587	47.08	-26.92	74	52.32	38.72	16.41	60.37	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 6+7, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ac VHT20 CH 149 5745MHz.



WiFi Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 165 5825MHz		5850.4	56.67	-64.72	121.39	41.44	35.8	11.36	31.93	256	41	P	H
		5858.8	56.68	-53.15	109.83	41.45	35.8	11.38	31.95	256	41	P	H
		5896	56.73	-32.99	89.72	41.51	35.78	11.41	31.97	256	41	P	H
		5926.8	57.23	-11.07	68.3	42	35.78	11.44	31.99	256	41	P	H
		5824	102.94	-----	-----	87.79	35.75	11.35	31.95	256	41	P	H
		5824	94.98	-----	-----	79.83	35.75	11.35	31.95	256	41	A	H
		5852	56.47	-61.27	117.74	41.24	35.8	11.36	31.93	113	360	P	V
		5863.6	57.07	-51.42	108.49	41.85	35.79	11.38	31.95	113	360	P	V
		5921.6	57.05	-13.76	70.81	41.82	35.78	11.44	31.99	113	360	P	V
		5995.2	56.89	-11.41	68.3	41.69	35.75	11.5	32.05	113	360	P	V
	5824	99.01	-----	-----	83.86	35.75	11.35	31.95	113	360	P	V	
	5824	91.44	-----	-----	76.29	35.75	11.35	31.95	113	360	A	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		11488	46.71	-27.29	74	52.14	38.69	16.31	60.43	300	0	P	H
CH 149		11488	46.99	-27.01	74	52.42	38.69	16.31	60.43	100	0	P	V
5745MHz													
802.11ac VHT20		11565	47.5	-26.5	74	52.81	38.71	16.37	60.39	300	0	P	H
CH 157		11565	47.61	-26.39	74	52.92	38.71	16.37	60.39	100	0	P	V
5785MHz													
802.11ac VHT20		11653	47.26	-26.74	74	52.38	38.73	16.47	60.32	300	0	P	H
CH 165		11653	47.22	-26.78	74	52.34	38.73	16.47	60.32	100	0	P	V
5825MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5600.4	56.03	-12.27	68.3	41.52	35.45	11.13	32.07	213	39	P	H
		5696.8	57.41	-45.53	102.94	42.67	35.58	11.22	32.06	213	39	P	H
		5718.8	58.82	-51.74	110.56	44.01	35.6	11.25	32.04	213	39	P	H
		5722.4	57.81	-58.56	116.37	43	35.6	11.25	32.04	213	39	P	H
		5854.8	56.23	-55.13	111.36	40.98	35.8	11.38	31.93	213	39	P	H
		5865.6	56.59	-51.34	107.93	41.37	35.79	11.38	31.95	213	39	P	H
		5909.2	57.17	-22.79	79.96	41.95	35.78	11.43	31.99	213	39	P	H
		5944.4	57.03	-11.27	68.3	41.83	35.76	11.45	32.01	213	39	P	H
		5782	98.54	-----	-----	83.51	35.7	11.3	31.97	213	39	P	H
		5782	90.86	-----	-----	75.83	35.7	11.3	31.97	213	39	A	H
		5615.2	55.51	-12.79	68.3	40.99	35.47	11.13	32.08	251	350	P	V
		5672.8	55.8	-29.41	85.21	41.13	35.55	11.2	32.08	251	350	P	V
		5706	56.24	-50.74	106.98	41.45	35.6	11.23	32.04	251	350	P	V
		5722	55.42	-60.04	115.46	40.61	35.6	11.25	32.04	251	350	P	V
		5853.6	57.06	-57.03	114.09	41.81	35.8	11.38	31.93	251	350	P	V
		5866.8	56.54	-51.05	107.59	41.32	35.79	11.38	31.95	251	350	P	V
		5899.2	56.3	-31.05	87.35	41.08	35.78	11.41	31.97	251	350	P	V
		5943.6	56.65	-11.65	68.3	41.44	35.77	11.45	32.01	251	350	P	V
	5764	95.73	-----	-----	80.76	35.67	11.29	31.99	251	350	P	V	
	5764	87.71	-----	-----	72.74	35.67	11.29	31.99	251	350	A	V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 6+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		11554	47.3	-26.7	74	52.61	38.71	16.37	60.39	300	0	P	H
CH 155 5775MHz		11554	46.15	-27.85	74	51.46	38.71	16.37	60.39	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30	21.07	-18.93	40	27.12	24.6	0.58	31.23	-----	-----	P	H
		160.95	19	-24.5	43.5	32.31	15.97	2.04	31.32	-----	-----	P	H
		291.9	26.17	-19.83	46	35.66	19.34	2.77	31.6	-----	-----	P	H
		323.91	26.26	-19.74	46	35.18	19.8	2.92	31.64	-----	-----	P	H
		620.73	25.73	-20.27	46	28.09	24.86	4.06	31.28	-----	-----	P	H
		892.33	28.38	-17.62	46	28.04	26.65	4.87	31.18	-----	-----	P	H
		30.97	26.98	-13.02	40	33.6	24.04	0.59	31.25	-----	-----	P	V
		191.02	17.6	-25.9	43.5	31.66	15.04	2.24	31.34	-----	-----	P	V
		280.26	21.34	-24.66	46	30.76	19.4	2.71	31.53	-----	-----	P	V
		518.88	22.86	-23.14	46	26.6	24	3.7	31.44	-----	-----	P	V
		751.68	27.73	-18.27	46	28.68	25.7	4.46	31.11	-----	-----	P	V
		896.21	28.32	-17.68	46	27.92	26.68	4.88	31.16	-----	-----	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																																																																																																																																																																																																																																	
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3	5711.00	57.30	-15.14	100.44	42.51	11.23	35.68	32.04	205		37 Peak																																																																																																															
4	5723.09	56.15	-12.98	119.11	41.32	11.25	35.62	32.04	205		37 Peak																																																																																																															
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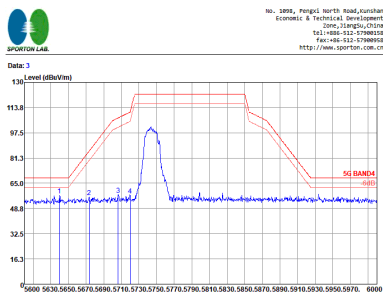
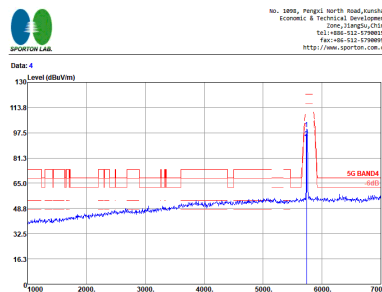
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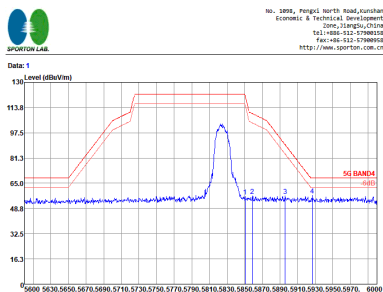
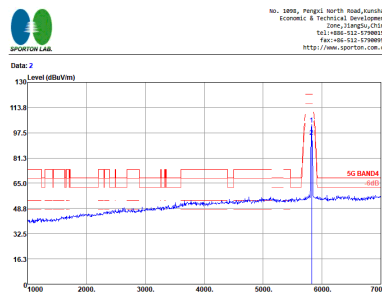
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

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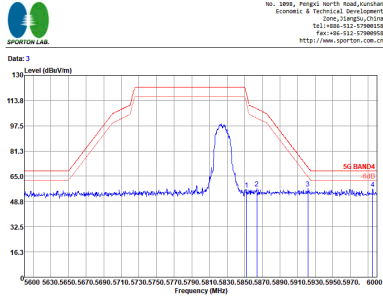
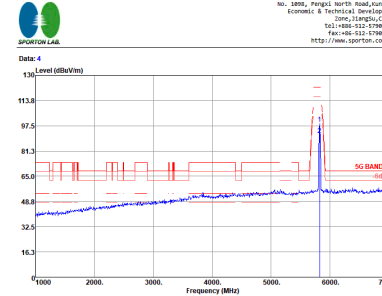


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Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

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Band 4 5725~5850MHz
WIFI 802. 11ac VHT 40 (Harmonic @ 3m)

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Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																													
ANT	802.11ac VHT20 CH149 5745MHz																																																													
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WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																									
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Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

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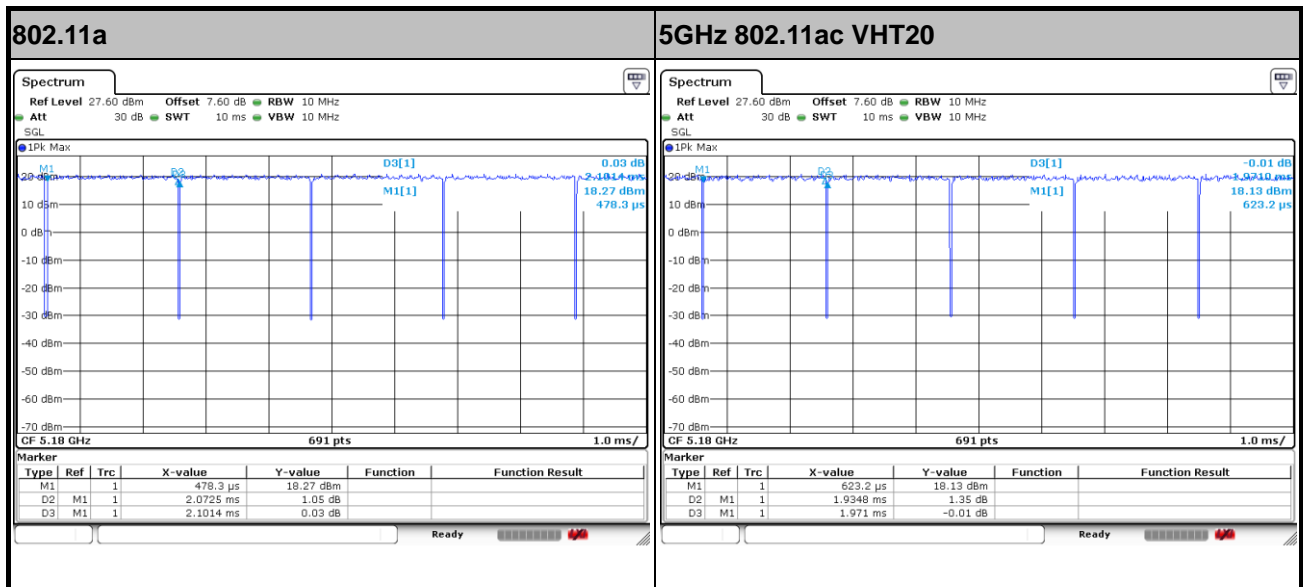
Emission below 1GHz
5GHz WIFI 802.11a (LF)

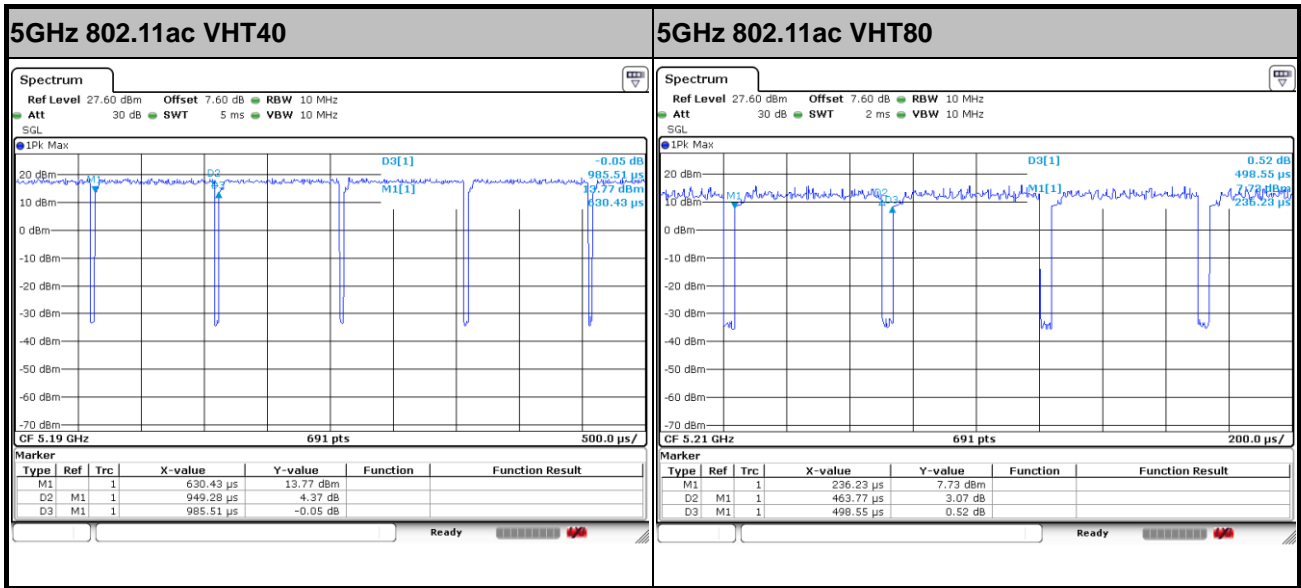
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Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	Duty Factor
802.11a	98.62	-	-	10Hz	-
5GHz 802.11n/ac HT20/VHT20	98.16	-	-	10Hz	-
5GHz 802.11n/ac HT40/VHT40	96.32	0.949	1.053	1.1KHz	0.16
5GHz 802.11ac VHT80	93.02	0.464	2.156	2.2KHz	0.31





—THE END—